

LISTING OF THE CLAIMS

- 1  
2 1. (currently amended) 1. A method for a user to interact with at  
3 least one remote service accessible through a home data  
4 distribution network, said home data distribution network  
5 comprising an aggregation of at least one communications media  
6 and at least one communications protocol used to access said at  
7 least one remote service from a serving entity, comprising:  
8 employing only one of a cellular voice network and a PSTN, said  
9 user connecting to a serving entity attached to said home data  
10 distribution network using a client device attached to a  
11 wireless, circuit-switched, voice telephony network,  
12 obtaining and viewing a list of at least one remote service from  
13 accessible remote services from said serving entity accessible  
14 remotely via said home network from said serving entity using at  
15 least one of said communications media and one of said  
16 communications protocols;  
17 selecting said at least one remote service from said list;  
18 selecting said at least one communications media and at least one  
19 communications protocol that said selected at least one service  
20 uses; and  
21 accessing and viewing said at least one remote service in  
22 obtaining desired results.  
23 2. (original) A method as recited in claim 1, wherein the client  
24 device is portable.

- 1 3. (original) A method as recited in claim 1, wherein the client  
2 device is a cellular telephone.
- 3 4. (original) A method as recited in claim 1, wherein the step of  
4 connecting includes dialing-up directly to the serving entity.
- 5 5. (original) A method as recited in claim 1, wherein the step of  
6 viewing is performed employing a viewing device collocated with  
7 said client device.
- 8 6. (previously presented) A method as recited in claim 1, wherein  
9 the viewing device depicts information in a form including at  
10 least one of: text, graphics, images, light display, voice or any  
11 combination of these.
- 12 7. (original) A method as recited in claim 1, wherein the step of  
13 selecting includes employing a menu.
- 14 8. (original) A method as recited in claim 5, wherein the step of  
15 viewing is performed employing a web-browser and the serving  
16 entity is a web-server.
- 17 9. (original) A method as recited in claim 1, wherein the step of  
18 connecting includes dialing-up to the serving entity through a  
19 data network to which the serving entity is connected.
- 20 10. (original) A method as recited in claim 9, wherein the data  
21 network is the Intranet controlled by an Internet Service  
22 Provider.
- 23 11. (original) A method as recited in claim 9, wherein the data  
24 network uses the TCP/IP protocol suite for transporting  
25 information.

12. (original) A method as recited in claim 1, further comprising said serving entity employing attributes of said circuit switch network in authenticating said user.

13. (original) A method as recited in claim 12, wherein said attributes include a telephone number of said client device.

14. (original) A method as recited in claim 12, wherein said attributes include a telephone number of said serving entity.

15. (original) A method as recited in claim 1, further comprising establishing credentials so that said at least one remote service can be manipulated in a secure manner on the serving entity.

16. (original) A method as recited in claim 1, wherein the step of viewing views the list on a viewing device in a manner that depends on the user's access privileges to said at least one remote service.

17. (original) A method as recited in claim 1, further comprising the serving entity providing access to at least one service agent used to access and control said at least one remote service.

18. (original) A method as recited in claim 17, wherein at least one of said at least one service agent is a computer software module executable on a computer.

19. (original) A method as recited in claim 18, further comprising activating said software module prior to invoking a particular remote service.

- 1 20. (original) A method as recited in claim 18, further  
2 comprising activating said software module on demand after a  
3 particular remote service has been invoked.
- 4 21. (original) A method as recited in claim 18, further  
5 comprising storing said software module at a data repository.
- 6 22. (original) A method as recited in claim 21, further  
7 comprising dynamically retrieving and activating said software  
8 module from the data repository after invoking a particular  
9 remote service.
- 10 23. (original) A method as recited in claim 1, wherein said  
11 wireless, circuit-switched, voice telephony network is a first  
12 generation, analog, cellular network.
- 13 24. (original) A method as recited in claim 1, wherein said  
14 wireless, circuit-switched, voice telephony network is a second  
15 generation, digital, cellular network.
- 16 25. (original) A method as recited in claim 4, wherein the step  
17 of dialing-up directly to the service entity further includes  
18 passing dialing signaling and control data to the serving entity  
19 through an intermediary data network.
- 20 26. (original) A method as recited in claim 9, wherein the step  
21 of dialing-up to the serving entity through a data network,  
22 further includes dialing-up to the serving entity through a  
23 sequence of at least one data network, the last one of which the  
24 serving entity is attached to.
- 25 27. (original) An article of manufacture comprising a computer  
26 usable medium having computer readable program code means

1 embodied therein for causing a user to interact with at least one  
2 remote service, the computer readable program code means in said  
3 article of manufacture comprising computer readable program code  
4 means for causing a computer to effect the steps of claim 1.

5 28. (original) A program storage device readable by machine,  
6 tangibly embodying a program of instructions executable by the  
7 machine to perform method steps for causing a user to interact  
8 with at least one remote service, said method steps comprising  
9 the steps of claim 1.

10 29. (currently amended) An apparatus for a user to interact with  
11 at least one remote service, comprising:

12 user connecting means for said user connecting to a serving  
13 entity using a client device attached to a wireless,  
14 circuit-switched, voice telephony network, said user connecting  
15 means employing only one of a cellular voice network and a PSTN;

16 user viewing means for obtaining and viewing a list of accessible  
17 remote services from said serving entity;

18 second connecting means for attaching said apparatus to a  
19 communications medium and using a communications protocols, taken  
20 from an aggregation of communication media and protocols, through  
21 which said at least one remote service can be accessed;

22 user selecting means for selecting said at least one remote  
23 service from said list;

24 second selecting means for selecting the communications medium  
25 and protocol to access said selected at least one service; and

1 user access means for accessing and viewing said at least one  
2 remote service in obtaining desired results.

3 30. (original) A computer program product comprising a computer  
4 usable medium having computer readable program code means  
5 embodied therein for causing a user to interact with at least one  
6 remote service, the computer readable program code means in said  
7 computer program product comprising computer readable program  
8 code means for causing a computer to effect the functions of  
9 claim 28.

10 31. (currently amended) An apparatus attached on a home network  
11 for a user using a client device attached to a wireless,  
12 circuit-switched, voice telephony network, to interact with at  
13 least one service on said home network, said apparatus  
14 comprising:

15 a telephone modem to directly receive an incoming call from the a  
16 client device, and also to receive and transmit data over a  
17 telephone network, said telephone modem having a client port  
18 through which the apparatus attaches to the telephone network,  
19 said apparatus being a single apparatus through which a user with  
20 the user client device can establish communication in one step,  
21 said client device employing only one of a cellular voice network  
22 and a PSTN;

23 a dial-in service module to implement dial-in logic for the  
24 client device;

25 a browser server module for managing data for remote display; and

1 a protocol transport module to implement protocols needed to  
2 transport data back and forth between a browser application in  
3 the client device and said browser server module.

4 32. (original) An apparatus as recited in claim 31, wherein said  
5 browser server is used to obtain, organize, and manipulate data  
6 received from and data sent to the client device through the  
7 protocol transport module.

8 33. (original) An apparatus as recited in claim 32, wherein said  
9 data sent to the client device are displayed and viewed by the  
10 browser application in the client device.

11 34. (previously presented) An apparatus as recited in claim 32,  
12 wherein said data sent includes a list of services that are  
13 accessible by the client device.

14 35. (previously presented) An apparatus as recited in claim 31,  
15 wherein said data received by the browser application in the  
16 client device include a selection of at least one service the  
17 user of the client device controls and an action to be taken for  
18 a selected service, and upon receipt of the action the browser  
19 server interacts with a particular service agent to implement the  
20 control logic for controlling the selected service, wherein a  
21 control signal generated by the service agent exits the apparatus  
22 through the client port.

23 36. (currently amended) An apparatus as recited in claim 31,  
24 wherein said dial-in server module triggers at least one  
25 particular module in the apparatus to process any incoming calls  
26 and requests from the a client device.

1 37. (previously presented) An apparatus as recited in claim 31,  
2 wherein said dial-in server module performs user authentication.  
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